

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2004-271646

(43)Date of publication of application : 30.09.2004

(51)Int.Cl.

G09G 3/30  
 G09G 3/20  
 H03F 3/343  
 H03K 17/00  
 H03K 17/16  
 H03K 17/693  
 H05B 33/14

(21)Application number : 2003-059015

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(22)Date of filing : 05.03.2003

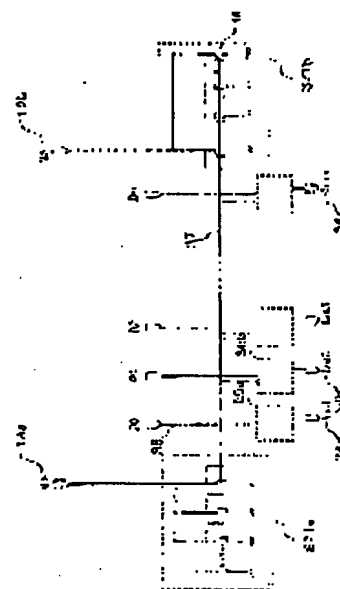
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(54) SEMICONDUCTOR CIRCUIT FOR DRIVING CURRENT DRIVE TYPE DISPLAY DEVICE,  
 AND DISPLAY DEVICE USING THE SEMICONDUCTOR CIRCUIT

(57)Abstract:

**PROBLEM TO BE SOLVED:** To overcome the problem that the voltage of a gate signal line forming a mirror is changed and a value different from a prescribed current value is outputted when currents from almost all output terminals are changed when connecting gate electrodes of all transistors constituting the mirror are connected by one signal line in constitution for distributing reference currents to respective outputs by using a current mirror in a current output type driver IC for performing gradation display on the basis of a plurality of reference currents.

**SOLUTION:** In order to suppress a potential change of the gate signal line, a transistor to be a mirror source for allowing a reference current to flow is increased or the number of transistors is increased. A function for reducing a change in the drain voltage of a transistor which may cause a change in the potential of the gate signal line is arranged. When the sensitivity of a change in a drain current to a change in gate potential is reduced, the prescribed current value can be outputted even when currents from almost all output terminals are changed.



## LEGAL STATUS

[Date of request for examination] 03.03.2006

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than  
 the examiner's decision of rejection or  
 application converted registration]

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[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision  
of rejection]

[Date of requesting appeal against examiner's  
decision of rejection]

[Date of extinction of right]